

ALLAN W. H. PÉ

Plankton Tows
Vema Cruise 2

PLANKTON HAUL

#1

DATE	31 July Cor Sta 10
LATITUDE	
LONGITUDE	
DIRECTION	Vertical from 50 fms
SPEED	
NET SIZE & TYPE	# 14
SKY CONDITION	bryant
TIME NET IN	4:5 minutes
TIME REACHES MAX. DEPTH	
MAX. DEPTH	
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	20 miles
TIME NET OUT	
TOTAL TIME	
REMARKS	
OBSERVATIONS ON HAUL	

PLANKTON HAUL

#2

DATE	July 31, 1953	coiling station
LATITUDE	41° 42' N	
LONGITUDE	53° 18' W	
DIRECTION		
SPEED		Home to
NET SIZE & TYPE	# 14	
SKY CONDITION		
TIME NET IN	15:30	
TIME REACHES MAX. DEPTH		
MAX. DEPTH	100 fathoms	vertical
TIME LEAVES MAX. DEPTH		
TOTAL TIME AT MAX. DEPTH		
TIME NET OUT	15:45	
TOTAL TIME	15 minutes	
REMARKS	single haul using a 20 lb weight to haul down a #14 net	
OBSERVATIONS ON HAUL	small number of organisms recovered	

PLANKTON HAUL

#31

DATE	August 2, 1953
LATITUDE	39° 32' N
LONGITUDE	51° 14' W
DIRECTION	
SPEED	8 knots
NET SIZE & TYPE	# 14
SKY CONDITION	
TIME NET IN	13:25
TIME REACHES MAX. DEPTH	
MAX. DEPTH	unknown
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	
TIME NET OUT	13:45
TOTAL TIME	20 minutes
REMARKS	Made from B.T. winch while underway at 8 knots. Lindbergh underway sampler was attached by 5 ft. of B.T. line to a dummy B.T.
OBSERVATIONS ON HAUL	a good quantity of organisms recovered

PLANKTON HAUL

4

DATE	August 2, 1953
LATITUDE	38 46
LONGITUDE	50 55
DIRECTION	
SPEED	8 knots
NET SIZE & TYPE	# 14
SKY CONDITION	
TIME NET IN	19:30
TIME REACHES MAX. DEPTH	
MAX. DEPTH	unknown
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	
TIME NET OUT	19:50
TOTAL TIME	20 minutes
REMARKS	same towing procedure as in plankton haul #5.
OBSERVATIONS ON HAUL	a good quantity of organisms recovered

PLANKTON HAUL

#5

DATE	August 3, 1953
LATITUDE	37° 23' N
LONGITUDE	49° 16' W
DIRECTION	
SPEED	3 knots
NET SIZE & TYPE	#14
SKY CONDITION	
TIME NET IN	18:20
TIME REACHES MAX. DEPTH	
MAX. DEPTH	unknown
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	
TIME NET OUT	18:50
TOTAL TIME	30 minutes
REMARKS	Tandberg sampler attached to a dummy B.D.
OBSERVATIONS ON HAUL	a quantity equal in size to number 3 & 4 was recovered

PLANKTON HAUL

#6

DATE	August 8, 1953
LATITUDE	40° 55' N
LONGITUDE	19° 57' W
DIRECTION	
SPEED	7 knots
NET SIZE & TYPE	#14
SKY CONDITION	clear
TIME NET IN	13:10
TIME REACHES MAX. DEPTH	
MAX. DEPTH	surface
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	
TIME NET OUT	14:10
TOTAL TIME	1 hour
REMARKS	Made using Lindbergh underway sampler from Hardy B.T. winch at stern of vessel. About 300 ft of line out. Broke surface occasionally. A small number of organisms was recovered. Some possibly being lost when the net was emptied.
OBSERVATIONS ON HAUL	

PLANKTON HAUL #7

DATE	August 8, 1953
LATITUDE	71° 05'
LONGITUDE	19° 59'
DIRECTION	
SPEED	8 knots
NET SIZE & TYPE	#14
SKY CONDITION	clear
TIME NET IN	14:10
TIME REACHES MAX. DEPTH	
MAX. DEPTH	unknown
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	
TIME NET OUT	14:45
TOTAL TIME	35 minutes
REMARKS	Used dummy B.T. and underway plankton sampler from B.T. winch
OBSERVATIONS ON HAUL	a large quantity of organisms was recovered,

PLANKTON HAUL

#8

DATE	August 8, 1953
LATITUDE	41° 28' N
LONGITUDE	50° 10' W
DIRECTION	
SPEED	8 knots
NET SIZE & TYPE	# 14
SKY CONDITION	clear
TIME NET IN	17:10
TIME REACHES MAX. DEPTH	
MAX. DEPTH	surface
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	
TIME NET OUT	18:10
TOTAL TIME	1 hour
REMARKS	Shallow haul from hand B.T. winch
OBSERVATIONS ON HAUL	small quantity of organisms

PLANKTON HAUL #9

DATE	August 9, 1953
LATITUDE	43° 35' N
LONGITUDE	51° 09' W
DIRECTION	
SPEED	8 knots
NET SIZE & TYPE	# 14
SKY CONDITION	overcast
TIME NET IN	08:50
TIME REACHES MAX. DEPTH	
MAX. DEPTH	surface
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	
TIME NET OUT	09:20
TOTAL TIME	30 minutes
REMARKS	shallow haul from back B.T. work
OBSERVATIONS ON HAUL	a good quantity was recovered

PLANKTON HAUL #10

DATE	August 9, 1951
LATITUDE	43° 52'
LONGITUDE	51° 17'
DIRECTION	
SPEED	8 knots
NET SIZE & TYPE	# 14
SKY CONDITION	overcast
TIME NET IN	10:50
TIME REACHES MAX. DEPTH	
MAX. DEPTH	surface
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	
TIME NET OUT	12:10
TOTAL TIME	80 minutes
REMARKS	Finished net from hand B.D. it is clear. Line became fouled with fog line. Had to haul in by hand and cut out about 150 feet. a very good quantity of organisms recovered.
OBSERVATIONS ON HAUL	

PLANKTON HAUL #11

DATE	24 Aug 53
LATITUDE	48° 47' N
LONGITUDE	50° 19' W
DIRECTION	90°
SPEED	8½ knots
NET SIZE & TYPE	# 14 - Lindbergh towing
SKY CONDITION	overcast
TIME NET IN	08:50
TIME REACHES MAX. DEPTH	
MAX. DEPTH	surface
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	
TIME NET OUT	09:35
TOTAL TIME	45 minutes
REMARKS	Haul made from boom on port mid-ship using hand BT work, seemed to work all night
OBSERVATIONS ON HAUL	a very rich haul (2 jars) was recovered

PLANKTON HAUL 12

DATE	August 25, 1953
LATITUDE	47° 40' N
LONGITUDE	48° 25' W
DIRECTION	123°
SPEED	8 knots
NET SIZE & TYPE	#14- Jumbo net
SKY CONDITION	overcast
TIME NET IN	07:45 - 09:15
TIME REACHES MAX. DEPTH	
MAX. DEPTH	surface
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	
TIME NET OUT	
TOTAL TIME	1 1/2 hours
REMARKS	Towed from stern of ship located on boom port mid ship
OBSERVATIONS ON HAUL	only a few catch recovered

PLANKTON HAUL

13

DATE	August 25, 1953
LATITUDE	46° 52' N
LONGITUDE	48° 30' W
DIRECTION	
SPEED	8 1/2 knots
NET SIZE & TYPE	#14 - Juddburgh towing
SKY CONDITION	overcast
TIME NET IN	13:15
TIME REACHES MAX. DEPTH	
MAX. DEPTH	surface
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	
TIME NET OUT	1340
TOTAL TIME	25 minutes
REMARKS	From Capt. B. J. Smith, regard port a mishap. Very little wave action. Hited for anchoring station and had a fairly dense sample was recovered
OBSERVATIONS ON HAUL	

PLANKTON HAUL

14

DATE	25 August 1953
LATITUDE	46° 58' N
LONGITUDE	49 02' W
DIRECTION	
SPEED	8½ knots
NET SIZE & TYPE	#14 - Lindbergh
SKY CONDITION	overcast
TIME NET IN	16:00
TIME REACHES MAX. DEPTH	
MAX. DEPTH	surface
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	
TIME NET OUT	1645
TOTAL TIME	45 min
REMARKS	Towed same as #13
OBSERVATIONS ON HAUL	Similar in quantity and density to #13

PLANKTON HAUL

15

DATE	25 August 1953
LATITUDE	47° 14' N
LONGITUDE	50° 20' W
DIRECTION	
SPEED	8½ knots
NET SIZE & TYPE	# 14 - Lindbergh
SKY CONDITION	overcast
TIME NET IN	22:30
TIME REACHES MAX. DEPTH	
MAX. DEPTH	surface
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	2
TIME NET OUT	23:30
TOTAL TIME	1 hour
REMARKS	towed same as #14
OBSERVATIONS ON HAUL	a fairly rich haul recovered

PLANKTON HAUL 16

DATE	26/8/53
LATITUDE	47° 25' } approx.
LONGITUDE	52° 30' }
DIRECTION	
SPEED	9 knots
NET SIZE & TYPE	# 14 - Lindbergh
SKY CONDITION	3/10 with cumulus
TIME NET IN	10:00
TIME REACHES MAX. DEPTH	
MAX. DEPTH	surface
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	10:30
TIME NET OUT	10:30
TOTAL TIME	30 minutes
REMARKS	Towed same as #16. Had to haul in when we stopped for camera station
OBSERVATIONS ON HAUL	a rather thin catch recovered

PLANKTON HAUL #17

DATE	August 28, 1953
LATITUDE	46° 20'
LONGITUDE	53° 10'
DIRECTION	
SPEED	8½ knots
NET SIZE & TYPE	#14 - Lindbergh
SKY CONDITION	cloudy with altostratus
TIME NET IN	09:45
TIME REACHES MAX. DEPTH	
MAX. DEPTH	surface
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	
TIME NET OUT	10:35
TOTAL TIME	50 minutes
REMARKS	Same as #16 - Boon shows signs of cracking around bottle
OBSERVATIONS ON HAUL	A small catch resulted

PLANKTON HAUL

#18

DATE	29/8/53
LATITUDE	44° 10' N
LONGITUDE	55° 00' W
DIRECTION	
SPEED	6 knots
NET SIZE & TYPE	#14 - Lindbergh
SKY CONDITION	overcast
TIME NET IN	10:00
TIME REACHES MAX. DEPTH	
MAX. DEPTH	surface
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	
TIME NET OUT	11:00
TOTAL TIME	1 hour
REMARKS	Towed same as #17. Only let out wire as far as stern because of heavy sea and danger of fouling.
OBSERVATIONS ON HAUL	Very small catch

PLANKTON HAUL

19

DATE	319/53
LATITUDE	40° 30' N
LONGITUDE	53° 05' W
DIRECTION	
SPEED	8 knots
NET SIZE & TYPE	# 14 replica of Lindbergh
SKY CONDITION	clear
TIME NET IN	17:05
TIME REACHES MAX. DEPTH	18:
MAX. DEPTH	5 feet
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	1
TIME NET OUT	18:25
TOTAL TIME	1 hour 20 min
REMARKS	On 29 Aug came up from lunch and found boom with all equipment carried away by heavy sea. On 3 Sept constructed a rough replica of Lindbergh net with tire cap, attached it to dummy B. T. ^{by 5'} and hauled it from hydro winch. Allowed it to drag just behind the B.T. winch so that it wouldn't foul hydrophones
OBSERVATIONS ON HAUL	very meagre haul

PLANKTON HAUL #20

DATE	3 September 53
LATITUDE	35° 30' N
LONGITUDE	53° 05' W
DIRECTION	
SPEED	8 knots
NET SIZE & TYPE	#14 - Jendrych copy
SKY CONDITION	twilight
TIME NET IN	18:45
TIME REACHES MAX. DEPTH	
MAX. DEPTH	5 feet
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	
TIME NET OUT	20:00
TOTAL TIME	75 minutes
REMARKS	Towed same as #20
OBSERVATIONS ON HAUL	A small quantity recovered. Somewhat larger than #19

PLANKTON HAUL

#21

DATE	3 Sept. 53
LATITUDE	35° 20' N
LONGITUDE	53° 30' W
DIRECTION	
SPEED	8 size
NET SIZE & TYPE	#14 Lindbergh replica
SKY CONDITION	clear - night
TIME NET IN	20:15
TIME REACHES MAX. DEPTH	
MAX. DEPTH	5 feet
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	
TIME NET OUT	21:45
TOTAL TIME	90 minutes
REMARKS	Towed from hydro-crank on dummy B.T.
OBSERVATIONS ON HAUL	same as #20

PLANKTON HAUL

#21

DATE	3 September 5
LATITUDE	35° 15' N
LONGITUDE	53° 40' W
DIRECTION	
SPEED	8 knots
NET SIZE & TYPE	#14 Jendbergh replica
SKY CONDITION	clear - night
TIME NET IN	22:00
TIME REACHES MAX. DEPTH	
MAX. DEPTH	3 feet
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	
TIME NET OUT	23:30
TOTAL TIME	90 minutes
REMARKS	towed same as #21
OBSERVATIONS ON HAUL	meagre results

PLANKTON HAUL

#23

DATE	4 September 53
LATITUDE	34° 45' N
LONGITUDE	59° 40' W
DIRECTION	
SPEED	8 knots
NET SIZE & TYPE	#4-Jumbo net
SKY CONDITION	clear
TIME NET IN	06:25
TIME REACHES MAX. DEPTH	
MAX. DEPTH	3 feet
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	
TIME NET OUT	08:00
TOTAL TIME	95 minutes
REMARKS	towed same as #22. when I went to haul in found that it had fouled with sea weed and was dragging on the surface
OBSERVATIONS ON HAUL	A fair size catch of low density resulted

PLANKTON HAUL

#24

DATE	4 September 1953
LATITUDE	34° 40' N
LONGITUDE	55° 20' W
DIRECTION	
SPEED	8 knots
NET SIZE & TYPE	#14 Jirillugh replica
SKY CONDITION	clear
TIME NET IN	09 15
TIME REACHES MAX. DEPTH	
MAX. DEPTH	5 feet
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	
TIME NET OUT	10:45
TOTAL TIME	90 minutes
REMARKS	towed same as #23. Towed with sea weed as usual
OBSERVATIONS ON HAUL	The smallest catch to date

PLANKTON HAUL

#25

DATE	4 September 1953
LATITUDE	34° 35' N
LONGITUDE	53° 45' W
DIRECTION	
SPEED	8 knots
NET SIZE & TYPE	#14 - Lindbergh replica
SKY CONDITION	clear
TIME NET IN	13:30
TIME REACHES MAX. DEPTH	
MAX. DEPTH	5 feet
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	
TIME NET OUT	#25
TOTAL TIME	55 minutes
REMARKS	Towed same as #24. Made a new towing line from dunny to net. 7 feet long. Had to pull on when it fouled with mud and began to foul hydrophones.
OBSERVATIONS ON HAUL	Very meagre haul

PLANKTON HAUL

#26

DATE	4 September 53
LATITUDE	34° 35' N
LONGITUDE	56° 00' W
DIRECTION	
SPEED	8 knots
NET SIZE & TYPE	#14 Lindbergh replica
SKY CONDITION	clear
TIME NET IN	16:20
TIME REACHES MAX. DEPTH	
MAX. DEPTH	3 feet
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	
TIME NET OUT	17:40
TOTAL TIME	80 minutes
REMARKS	Towed same as #26. Came up foul with seaweed.
OBSERVATIONS ON HAUL	Very small catch.

PLANKTON HAUL

#27

DATE	5 Sept 53
LATITUDE	33° 50' N
LONGITUDE	56° 35' W
DIRECTION	
SPEED	8 knots
NET SIZE & TYPE	#14 - Jendbergh replica
SKY CONDITION	clear
TIME NET IN	10:30
TIME REACHES MAX. DEPTH	
MAX. DEPTH	7 feet
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	
TIME NET OUT	12:10
TOTAL TIME	100 minutes
REMARKS	Towed same as #26. Trouble with seaweed
OBSERVATIONS ON HAUL	Thin haul as usual.

PLANKTON HAUL 28

DATE	5 Sept 53
LATITUDE	33° 20' N
LONGITUDE	56° 20' W
DIRECTION	
SPEED	8 knots
NET SIZE & TYPE	#14 Lindbergh
SKY CONDITION	clear
TIME NET IN	1435
TIME REACHES MAX. DEPTH	1440
MAX. DEPTH	300 fathoms T.D. = 200 feet
TIME LEAVES MAX. DEPTH	1540
TOTAL TIME AT MAX. DEPTH	1560 minutes
TIME NET OUT	1550
TOTAL TIME	75 minutes
REMARKS	Towed from hydro winch attached to B.T. Towing line shortened to five feet. Towed on power.
OBSERVATIONS ON HAUL	A sample somewhat larger than the surface ones was attained

PLANKTON HAUL

29

DATE	5 September 1953
LATITUDE	32° 25' N
LONGITUDE	55° 50' W
DIRECTION	
SPEED	8 knots
NET SIZE & TYPE	#14-Jumbo net
SKY CONDITION	clear - night
TIME NET IN	22:50
TIME REACHES MAX. DEPTH	111
MAX. DEPTH	surface
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	
TIME NET OUT	23:50
TOTAL TIME	60 minutes
REMARKS	Fixed from hydro work on Landing B.V.
OBSERVATIONS ON HAUL	

PLANKTON HAUL

30

DATE	7 September 1953
LATITUDE	34° 10' N
LONGITUDE	52° 40' W
DIRECTION	
SPEED	8 knots
NET SIZE & TYPE	#14 J. L. Bergh replica
SKY CONDITION	overcast
TIME NET IN	08:30
TIME REACHES MAX. DEPTH	
MAX. DEPTH	5 feet
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	
TIME NET OUT	10:00
TOTAL TIME	90 minute
REMARKS	Towed from hydro winch attached to humming B.T.
OBSERVATIONS ON HAUL	This catch was the smallest yet obtained

PLANKTON HAUL

31

DATE	7 September 53
LATITUDE	39° 10' N
LONGITUDE	52° 10' W
DIRECTION	
SPEED	8 knots
NET SIZE & TYPE	#14 Jumbo net
SKY CONDITION	overcast some sun
TIME NET IN	13:25
TIME REACHES MAX. DEPTH	1330
MAX. DEPTH	3/6 fathoms TD = 185 feet
TIME LEAVES MAX. DEPTH	15:00
TOTAL TIME AT MAX. DEPTH	90 minutes
TIME NET OUT	15:10
TOTAL TIME	1 hr 45 minutes
REMARKS	Towed free-floating from hydro- wrench attached to F.G. T. by rope. Went down to 600 feet. When made was hauled it was dragged up to 180 ft. a sample deeper than surface was recovered
OBSERVATIONS ON HAUL	

PLANKTON HAUL

32

DATE	8 September 1953
LATITUDE	33° 40' N
LONGITUDE	55° 40' W
DIRECTION	
SPEED	8 knots
NET SIZE & TYPE	#14 Lindbergh replica
SKY CONDITION	clear
TIME NET IN	0850
TIME REACHES MAX. DEPTH	0855
MAX. DEPTH	300 fathoms wire T.D. = 185 fms
TIME LEAVES MAX. DEPTH	0955
TOTAL TIME AT MAX. DEPTH	1 hour
TIME NET OUT	1015
TOTAL TIME	75 minutes
REMARKS	Lowered from hydro winch attached to B.D. Hauled a surface net in conjunction with deep haul
OBSERVATIONS ON HAUL	Haul #33 seemed to be denser. The two apparently differed in composition also

PLANKTON HAUL

33

DATE	8 September 1953
LATITUDE	33° 40' N
LONGITUDE	55° 40' W
DIRECTION	
SPEED	8 knots
NET SIZE & TYPE	#14 Lindbergh replica
SKY CONDITION	clear
TIME NET IN	0855
TIME REACHES MAX. DEPTH	
MAX. DEPTH	3 feet
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	0155
TIME NET OUT	0955
TOTAL TIME	1 hour
REMARKS	Towed from B.T. winch attached to dummy B.T. in conjunction with #32. Had an eight foot towing line from dummy B.T. - kept a second Lindbergh net. Net picked up and paper dumped on deck by crew boy.
OBSERVATIONS ON HAUL	

70)

70)

PLANKTON HAUL

34

DATE	8 September 53
LATITUDE	33° 40' N
LONGITUDE	56° 20' W
DIRECTION	
SPEED	8 knots
NET SIZE & TYPE	#14 Trawl
SKY CONDITION	clear
TIME NET IN	1330
TIME REACHES MAX. DEPTH	
MAX. DEPTH	surface
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	1440
TIME NET OUT	1440
TOTAL TIME	10 minutes
REMARKS	Towed from higher - work attached to derrick B. J. On mast of the vessel haul, as usual, was kept up by the towing vessel. When ending haul it collects near the derrick B. J. it rises to the very surface and then when the time comes to haul in the net.

OBSERVATIONS ON HAUL

See log

When the time comes to haul in the net.

sample, the net is skipping
from wave to wave

10)

10)

PLANKTON HAUL

35

DATE	10 September 53
LATITUDE	34° 20' N
LONGITUDE	63° 35' W
DIRECTION	
SPEED	10 knots
NET SIZE & TYPE	#14 Jumbo beam
SKY CONDITION	9/10 with cumulus clouds
TIME NET IN	1340
TIME REACHES MAX. DEPTH	
MAX. DEPTH	2 feet
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	
TIME NET OUT	1510
TOTAL TIME	90 minutes
REMARKS	Ignored from 1500 to 1510 - 1510 to 1515
OBSERVATIONS ON HAUL	A moderate sample was recovered

PLANKTON HAUL

36

DATE	11 SEPT 53
LATITUDE	36° 20' N
LONGITUDE	66° 30' W
DIRECTION	
SPEED	10 1/2 knots
NET SIZE & TYPE	#14 Tullergh replica
SKY CONDITION	overcast
TIME NET IN	0825
TIME REACHES MAX. DEPTH	
MAX. DEPTH	2 feet
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	
TIME NET OUT	0930
TOTAL TIME	65 minutes
REMARKS	2 used net type #35. Most of the time it was very near the surface caused by the surface hydrophone and a few from the B.T. wrench
OBSERVATIONS ON HAUL	Small quantity recovered

PLANKTON HAUL

37

DATE	Sept 11, 1953
LATITUDE	36° 55' N
LONGITUDE	67° 15' W
DIRECTION	
SPEED	10½ knots
NET SIZE & TYPE	#14 Jumbo Trawl - 12 ft
SKY CONDITION	overcast
TIME NET IN	10:50
TIME REACHES MAX. DEPTH	
MAX. DEPTH	2 feet
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	
TIME NET OUT	11:50
TOTAL TIME	60 minutes
REMARKS	Specimens at #36. Net opened through oil slick left by tanker.
OBSERVATIONS ON HAUL	A rather thin sample was recovered.

PLANKTON HAUL

38

DATE	11 September 53
LATITUDE	37° 10' N
LONGITUDE	67° 40' W
DIRECTION	
SPEED	10 knots
NET SIZE & TYPE	#14 - Jumbo gh replica
SKY CONDITION	overcast
TIME NET IN	1450
TIME REACHES MAX. DEPTH	
MAX. DEPTH	2 feet
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	4
TIME NET OUT	1530
TOTAL TIME	100 minutes
REMARKS	Soaked from hydro which attached to downy B. J.
OBSERVATIONS ON HAUL	The almost nonexistent haul may be presumed to loose trying of the net.

PLANKTON HAUL

39

DATE	September 16/1953
LATITUDE	37° 50'
LONGITUDE	69° 16'
DIRECTION	
SPEED	1/8 knots
NET SIZE & TYPE	#14 Inlbergh replica
SKY CONDITION	clear - night
TIME NET IN	2030
TIME REACHES MAX. DEPTH	
MAX. DEPTH	2 feet
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	
TIME NET OUT	2140
TOTAL TIME	10 minutes
REMARKS	sowed same as #38
OBSERVATIONS ON HAUL	Very, very small

PLANKTON HAUL 140

DATE	12 Sept 53
LATITUDE	39° 00' N in Gulf Stream
LONGITUDE	71° 20' W
DIRECTION	
SPEED	8 knots
NET SIZE & TYPE	#14 Lindbergh replica
SKY CONDITION	clear
TIME NET IN	10:10
TIME REACHES MAX. DEPTH	10:20
MAX. DEPTH	500 fathoms T.D. = 250 feet
TIME LEAVES MAX. DEPTH	12:25
TOTAL TIME AT MAX. DEPTH	125 minutes
TIME NET OUT	12:40
TOTAL TIME	150 minutes
REMARKS	Quipped from hydro underpawner attached to B.T. Net ripped losing most of contents
OBSERVATIONS ON HAUL	almost non-existent

PLANKTON HAUL 41

DATE	12 Sept 53
LATITUDE	36° 55' N 67° 10' W ?
LONGITUDE	(Check with #40)
DIRECTION	
SPEED	8 knots
NET SIZE & TYPE	#14 Lindbergh replica
SKY CONDITION	clear
TIME NET IN	1020
TIME REACHES MAX. DEPTH	10:30
MAX. DEPTH	4 feet
TIME LEAVES MAX. DEPTH	12:25
TOTAL TIME AT MAX. DEPTH	1:55
TIME NET OUT	1220
TOTAL TIME	120 minutes
REMARKS	Towed from B.T. winch attached to dummy B.T. in conjunction with #40
OBSERVATIONS ON HAUL	Very thin. Passed through an area that seemed to have a great deal of foreign matter in it.

PLANKTON HAUL

DATE	12. 1. 53
LATITUDE	
LONGITUDE	
DIRECTION	
SPEED	
NET SIZE & TYPE	
SKY CONDITION	
TIME NET IN	
TIME REACHES MAX. DEPTH	
MAX. DEPTH	
TIME LEAVES MAX. DEPTH	
TOTAL TIME AT MAX. DEPTH	
TIME NET OUT	
TOTAL TIME	
REMARKS	
OBSERVATIONS ON HAUL	